Production of electric traction equipment at the Kirov "Dinamo" Plant.
Vest.elektroprom. 18 no.11:15-18 N '47. (MLRA 6:12)

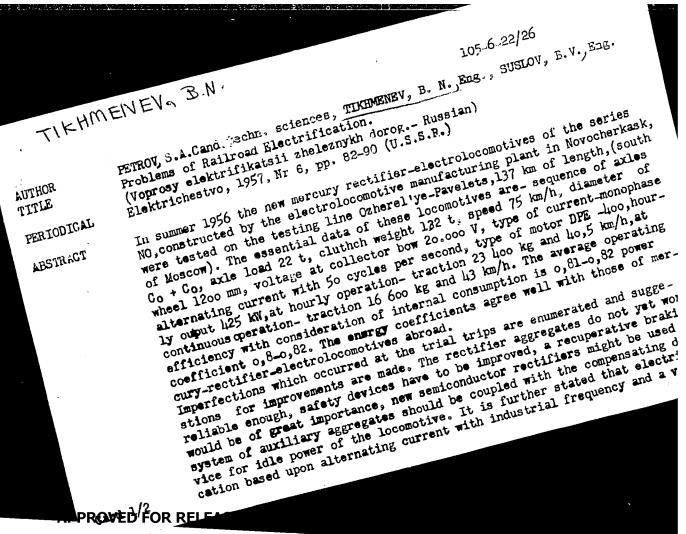
1. Zavod "Dinamo" im. S.M.Kirova.
(Electric railroads--Equipment and supplies)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001755530008-7"

TAKUBOVSKIY, V.Ya., kand.tekhn.nauk, starshiy prepodavatel'

"Alternating-current locomotives equipped with static converters"
by B.N. Tikhmenev. Reviewed by V.IA. IAkubovskii. Izv.yya.ucheb.zav.;
elektromekh. 1 no.8:137-141 '58. (MIRA 11:12)

1. Novocherkasskiy politekhnicheskiy institut.
(Electric locomotives) (Tikhmenev, B.N.)



Problems of Railroad Electrification.

105-6-22/26

ge in the consumer line of 20-25 kV is absolutely preferable to electrification based upon direct current with a voltage of 3 kV. Problems in connection with coordinating both types of current are discussed. A survey was also given of the experience made with problems concerning rectifier electrolocomotives in France. Finally the data of the two new six-axle test electrolocomotives of the series Noo with 4 ooo Kw are given-cluth weight 138 t, speed 45 km/h, frequency 50 hertz, voltage 20 kV, traction (at hourly opera-

ASSOCIATION

Institute for Complex Transport Problems of the Academy of Science of the U.S.S.R., Allunion Institute for Railroad Affairs of the Ministery of Traffic.

PRESENTED BY SUBMITTED AVAILABLE Card 2/2

Library of Congress.

- ANTIPHN, G.V., mashinist elektrovoza, Geroy Sotsialisticheskogo Truda;

 B.H.IKOV, I.I., elektromonter; PRESHYANOV, I.R., Geroy

 Sotsialitichenkogo Truda; EM JSKIM, A.I., mashinist-instraktor;

 MAIN MIN, M.I., tohar-ratsionalizator; KAZACHEM, I.K.;

 CHEM MINA-DIN [Chieng Bua-ting]; U FYM [Mu Feng]; LYU I [Liu I];

 YAN GHAC [Yang Chiao]; TIKHMENEY B.M., debtor tehlen.neuln;

 EAGEODIN, B.V., inzh. (g.Parizh); R.W.V., V.A., inzh.;

 FIVOVARCV, G.I.
 - A feat which will live forever. Elch. 1 topl. tiage 5 no.5:1-3 by '61. (EIRA 14:7)
 - l. Depo Krasnovarsk (for Antipin). 2. Chskaya distentsiya kontaktnoy seti (for Belikov). 3. Haster avtomatnogo tsekha depo Liski (for Presnyakov). 4. Lokomotivnove depo Crenbucz, rukovoditel' kolonny teplovozov imeni XXII pyzda partii (for Deniskin). 5. Instrumental'nyy tsekh komministicheskogo truda lokomotivnogo depo Kuriyshev (for Hamonin). 6. Literaturnyy sotrudnik gazety "Kuybyshevskiy zheleznodorozhnik" (for Kazachek). 7. Moskovskiy institut inzhenerov transporta (for Chen Hua-din, U Fyn, Lyu I, Yan Chao). 8. Rukovoditel' laboratorii peremennogo toka Vsesoyuznogo nauchno-issledovatel'skogo instituta zheleznodorozhnogo transporta Ministerstva putey soobshcheniya (for Tikhmenev). 8. Machal'nik depo Leningrad-Baltiyskiy (for Pivovarov). (Astronautics)

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TIKHMENEV B. N.

Tikhmenev, B. N.

The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskeya Kultura, Moscow, No. 22-40, 20 Feb - 3 Apr. 1954)

liame

Title of Work

"Rolling Stock of Electric Railroads" (text book)

Nominated by

Moscow Electromechanical Institute of Mailroad Engineers imeni F. E. Dzerzhinskiy

80: W-30604, 7 July 1954

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001755530008-7"

TIKHMENEV, B.N.; doktor tekhn.nauk; IZOSIMOV, A.V., kand.ekonom.nauk;

NEKRASOV, O.A., kand.tekhn.nauk; LAPIN, V.B., inzh.

Technical and economic comparison of methods for joining a.c. and d.c. electrified railroad districts. Trudy TSNII MPS no.256:108-122 '63.

(MIRA 16:6)

(Electric railroads)

TIKHMENEV, B.N., doktor tekhn. nauk; RUBCHINSKIY, Z.M., kand. tekhn. nauk

Avalanche type silicon rectifiers and possibility for their use
on electric trains. Elek. 1 tepl. tiaga 9 no.11:39-42 N '65.

(MIRA 19:1)

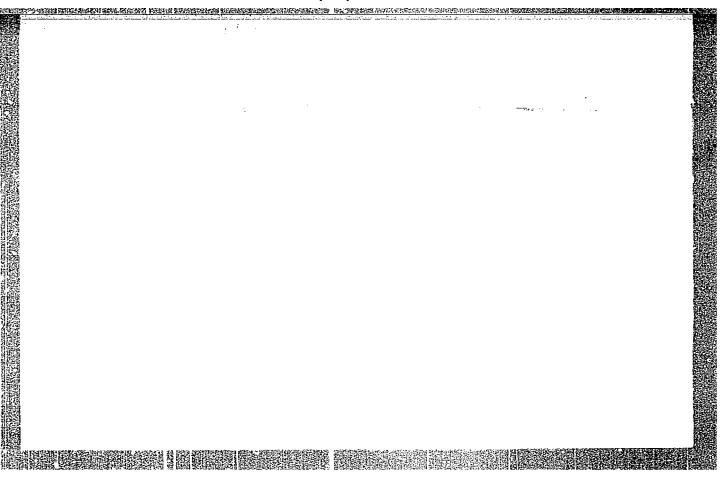
TIKHMENEW, M. G.

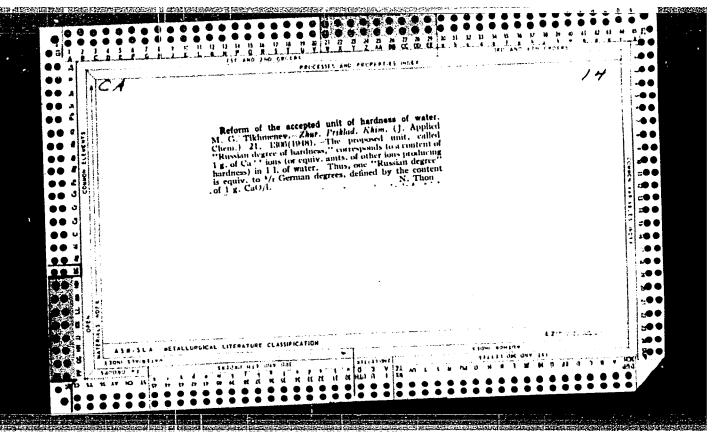
Tikhmenev, M. G. - "On reforming the unit of measurement of the degree of hardness of water", (Report), Soobshch. o nauch. rabotakh chlenov Vsesoyuz. khim. o-va im. Mendeleyeva, 1949, Issue 2, p. 5-6.

SO: U-4630, 16 Sept. 53, (Letopis 'Zhurnal 'nykh Statey, No. 23, 1949).

TIKHMENEY, M.G., dotsont

Letter to the editor. Khim.v shkole 15 no.1:89 Ja-F '60.
(Polymers)





TIKINEMEV, Sergei Aleksa Firing from stationary m		Moskva	Gos. voen.	izd-vo.	1936.	118 p.	
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UF625.T5							
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TIKHMENEV SERGEY THEKSHNOHOUTCH

TIKES SEV, SERVEY ALEKS FEBRUATON.

Usloviia strel'by po samoletam iz stankvojo pulemeta (metod issledoveniia). Hoskva, Gos. voen. izd-vo, 1936. 120 p., illus., tables, diagrs.

At head of title: Nauchno-issledovatel'skii otdel Strelkovo-takticheskogo instituta RKKA.

Title tr.: Machine-gum firing at aircraft (methods of investigation).

UF625.T5

SO: Aeronautical Sciences and / viation in the Soviet Union, Library of Congress, 1955.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001755530008-7"

TIKHOMENEY, 5.5.

BULGAKOV, B.V., and S.S. TIKHMENEV

Teoriia giro-gorizonta Sperri s maiatnikovoi vozdukhoduvnoi korrektsiei. (Moskva. Universitet. Uchenye zapiski, 1937, v. 7: Mekhanika, p. 181-199, diagrs)

Summary in English.

Title tr.: Theory of the Sperry airplane horizon.

Q60.M868 1937

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955

TIKHMENEV, S.S. and BULGAKOV, B. V.

"Teoria giro-gorizonta sperri s marnikovoy vozdukhovoy korrektsiyey,"
Ucheniye zapiski mgu, NO.Z, oo 181-199, 1937

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TIKHMENEV	5.5.		
		Theory of Aircraft Instruments. VVA	
		imeni ZhukOvskiy (1940)	
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TIKHMENEV, S. S.					
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CIA-RDP86-00513R001755530008-7 "APPROVED FOR RELEASE: 03/14/2001

124-57-2-2573

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 2, p 148 (USSR)

Tikhmenev, S.S. AUTHOR:

On the Bimetallic Temperature Force Compensation for TITLE:

Instruments (O silivey temperaturnoy bimetallicheskoy kompen-

satsii priborov)

PERIODICAL: V kn.: Elementy rascheta tochnykh priborov. Moscow,

Oborongiz, 1954, pp 5-24

Description of the calculation of bimetallic temperature ABSTRACT:

force compensation for the pressure-sensitive elements of instruments; aneroid and manometric membrane bellows are used as examples. The problem of the selection of a relationship between the compensating force and the operation of the sensitive element is examined. It is shown that a full temperature compensation is possible only in two points of the characteristic curve of a sensitive element. In the derivation of the formulas the usual simplifications according to the method of strength of materials were introduced. The case of rectangular and trapezoidal bimetallic foils is analyzed,

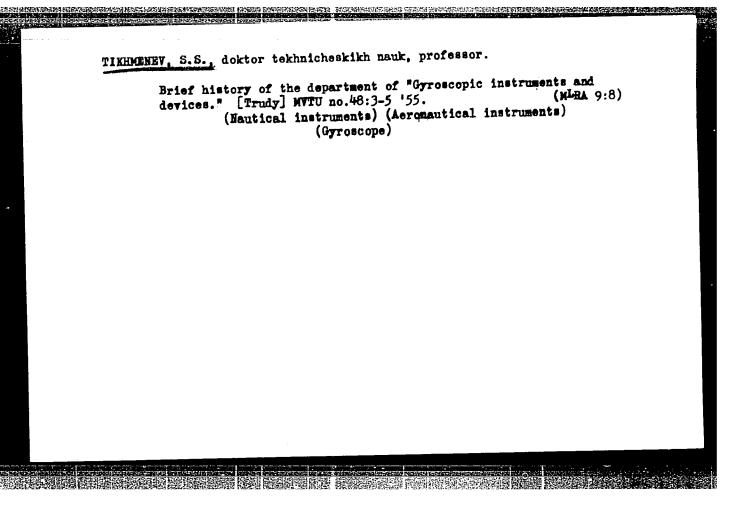
and a graphical analytical method for the selection of the design parameters of the compensation is proposed. L. Ye. Andreyeva Card 1/1

1. Pressure gages -- Temperature factors 2. Pressure gages -- Calibration

3. Mathematics

CIA-RDP86-00513R001755530008-7" APPROVED FOR RELEASE: 03/14/2001

TIKHANEV,	S	Š	in in in the second	क्ष्यप्रदेशसम्बद्धाः स्था स्थानस्य	a content fold at the first of the second				M/2 612.55 .T5
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TIMEMENEY, S.S., doktor tekhnicheskikh nauk, professor.

Horizontal turn errors of a directional gyro caused by the correction of the gyroscope's horizontal axis. [Trudy] MVTU no.48:23-36 '55. (Gyrocompass)

(Gyrocompass)

TIKHMENEV, S.S., doktor tekhnicheskikh nauk, professor.

The deviation of directional gyros from the aximuth caused by corrections of gyroscope axis' perpendicularity to the axis of the gimbal's cuter frame mounting during the swinging of the instrument

around an horizontal axis. [Trudy] MVTU no.48:37-56 155. (MLRA 9:8)
(Gyrocompass)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001755530008-7"

Calculation of cer NVTU no.48:84-123	khnicheskikh nauk, professor. tain springs with variable elasti '55. (Springs (Mechanisms))	city. [Trudy] (MIRA 9:8)

KOZLOV, Andrey Stepanovich; RYABOV, B.A., doktor tekhnicheskikh nauk, retsenzent; TIKHMENEV, S.S., dorktor tekhnicheskikh nauk, retsenzent; KOZLOV, M.S., kandidat tekhnicheskikh nauk, redaktor; PETROVA, I.A., redaktor; ZUBA-KIN, I.M., tekhnicheskiy redaktor.

[A theory of gyroscopic aeronautical instruments] Teoriia aviatsiennykh giroskopicheskikh priborov. Moskva, Gos.izd-vo obor.promyshl., 1956.
255 p. (Aeronautical instruments) (Gyroscope) (MLPA 9-5)

TIKHMENEV, Sergey Sergeyevich; FRIDLENDER, G.O., professor, doktor tekhnicheskikh nauk, retsenzent; SELEZNEV, V.P., dotsent, kandidat tekhnicheskikh nauk, retsenzent; MATVZYEV, H.K., inzhener retsenzent; GUROV, S.Z., redaktor; LOSEVA, G.F., izdatel'skiy redaktor; ANTONYUK, P.D., tekhnicheskiy redaktor

[Elements of precision instruments; a computation and construction manual] Elementy tochnykh priborov; rukovodstvo po raschetu i konstruirovaniiu. Moskva, Gos.izd-vo obor. promyshl., 1956. 360 p. (Instruments)

TIKHMENEY S.S.

PAVIOV, V.A., kandidat tekhnicheskikh nauk, detsent; TUNIMANOV, A.Z., inshener; ANTONOV, A.K., inshener; GUSHCHINA, L.M., inzhener; RIVKIN, S.S., doktor tekhnicheskikh nauk; SAYDOV, P.I., kandidat tekhnicheskikh nauk dotsent; PEL POR, D.S., doktor teknnicheskikh nauk, professor; RYABOV, B.L., doktor tekhnicheskikh nauk, professor; TIKHMENEY, S.S., doktor tekhnicheskikh nauk. professor; FRIDLENDER, G.O., doktor tekhnicheskikh nauk, professor; CHISTYAKOV, N.I., doktor tekhnicheskikh nauk, profes-

> Can V.A. Pavlov's book "Aircraft gyroscope instruments" be recommended for use as a textbook Priborostroenie no.1:29-31 Ja '57.

1. Chlen pravleniya Leningradskogo otdeleniya nauchnogo inzhenernotekhnicheskogo obshchestva priborostroitel'noy promyshlennosti (for Tunimanov). 2. Chlen prayleniya Vsesoyuznogo nauchnogo inzhenernotekhnicheskogo obshchestva priborostroitel noy promyshlennosti (for Gushchina) 3. Moskovskoye Vyssheye tekhnicheskoye uchilishche imeni Baumana (for Pel'por, Tikhmenev). 4. Moskovskiy aviatsionnyy institut imeni Serge Ordzhonikidse (for Ryabov). 5. Voyenno-vozdushnaya inzhenernaya akademiya imeni N.Ye. Zhukovskogo (for Chistykov) (Gyroscope)

TIKHMENEY, S.S., prof., doktor tekhn.nauk

1. Predstavleno kafedroy "Giroskopicheskiye pribory i ustroystva" Moskovskogo vysshego tekhnicheskogo uchilishcha imeni N.E. Baumana.

(Gyrocompass)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001755530008-7"

24(6)

SOV/146-2-5-10/19

AUTHOR:

Tikhmenev, S.S., Doctor of Technical Sciences,

Professor

TITLE:

The Problem of "Jilt" (Uvod) During the Nuta-

tion of a Gimbal-Mounted Gyroscope a

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy, Priboro-

stroyeniye, 1959, Nr 5, pp 63 - 67 (USSR)

ABSTRACT:

The author disputes the statements made by V.N.

Drozdovich in "Izvestiya vysshikh uchebnykh zavedeniy MVO SSSR", Priborostroyeniye Nr 3,

1958. Drozdovich refuted the results of investigations made by K. Magnus and Professors V.A. Pavlov, and D.S. Pel'por. It is pointed out that V.N. Drozdovich did not take into account the forces and moments due to reaction of the stay and the reaction moment of the bearings in the

gyroscope's outer gimbals frame. This article was recommended by the Kafedra "Giroskopicheskiye

Card 1/2

CIA-RDP86-00513R001755530008-7" APPROVED FOR RELEASE: 03/14/2001

SOV/146-2-5-10/19

The Problem of "Jilt" (Uvod) During the Nutation of a Gimbal-Mounted Gyroscope

pribory" (The Chair of "Gyroscopic Instruments"). There is I diagram.

ASSOCIATION: Moskovskoye Ordena Lenina i Ordena trudovogo kras-

nogo znameni vyssheye tekhnicheskoye uchilishche imeni N.E. Baumana (The Moscow School of Higher Technical Education imeni N.E. Bauman, Order of Lenin and the Red Labor Banner)

SUBMITTED: September 11, 1959

Card 2/2

\$/549/61/000/104/001/018 D237/D304

AUTHORS: Tikhmenev, S.S., Tronina, V.P., Chikin, V.A., Knyazev, G. N., Gulyayev, M.P., Zakharov, Yu.Ye., Chikina, I.S., Lyamin, V.I., Bocharov, V.K., Shigin, Ye.K., and Krotov, V.F.

TITLE: Scientific, pedagogical and general activities of Professor V.V. Dobronravov

SOURCE: Moscow, Vyssheye tekhnicheskoye uchilishche [Trudy], no. 104, 1961. Mekhanika, 7 - 18

TEXT: On the occasion of his 60th birthday and the 35th anniversary of the scientific and pedagogical activity of Professor, Doctor of Physical and Mathematical Sciences, Vladimir Vasilyevich Dobron-ravov who is at present Professor of Theoretical Mechanics at MVTU im. N.E. Baumana (MVTU im. N.E. Bauman), eleven of his students present this appreciation. V.V. Dobronravov was born on March 17th, 1901. In 1924 he obtained his degree in mathematics at the Saratov-skiy Gosudarstvennyy universitet im. N.G. Chernyshevskiy (Saratov State University im. N.G. Chernyshevskiy). In 1927 he accepted the Card 1/3

S/549/61/000/104/001/018 D237/D304

Scientific, pedagogical and ...

post of Assistant to the Professor of Physics at the Astrakhan State Medical Institute, where in subsequent years he published a paper in neuro-biophysics. During 1929-31, he was Professor of Mathematics at the Saratov Agricultural Institute and lectured at Saratov University. From 1931 he worked in a number of higher educational establishments in Moscow and was associated with Moscow University from 1931 to 1952. In 1946 he was awarded a doctorate at Moscow State University and in 1951 he was elected to the Department of Theoretical Mechanics at MVTU im. N.E. Bauman, where in subsequent years, under his guidance, courses in specialized branches such as stability of motion, gyroscopy, oscillation, variational method etc. were developed. During his career the main contributions made were in the field of mechanics of non-holonomic systems. After 1950 he published papers on kinetics of motion of rigid body (Trudy MIKhM, no. 2, (10), 1950), stability of linear systems of diff. equations with constant coefficients in (Avtomatika i Telemekhanika, v. 17, no. 3, 1956) etc. In the 1950's he also became interested in astronautics. He has been a member of the Moscow Mathematical Society since 1944, and is an active member of the Methodological Commis-

Card 2/3

S/549/61/000/104/001/018 D237/D304

Scientific, pedagogical and ...

sion on the Theoretical Mechanics of the Ministry of the Secondary and Higher Education of USSR. At present he is engaged in preparing a monograph on non-holonomic systems.

ASSOCIATION: Moskovskoye ordena Lenina i ordena trudovogo krasnogo znameni vyssheye tekhnicheskoye uchilishche im. Baumana (Moscow Order of Lenin and Order of the Red Banner of Labor Higher Technical School im. Bauman)

Card 3/3

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001755530008-7"

35629 S/549/61/000/104/005/018 D237/D304

13,2521

Tikhmenev, J.S., Doctor of Technical Sciences, Professor AUTHOR:

The behavior of some gyroscopes TITLE:

SOURCE: Moscow. Vyssheve tekhnicheskoye uchilishche [Trudy], no. 104, 1961. Mekhanika, 38 - 41"

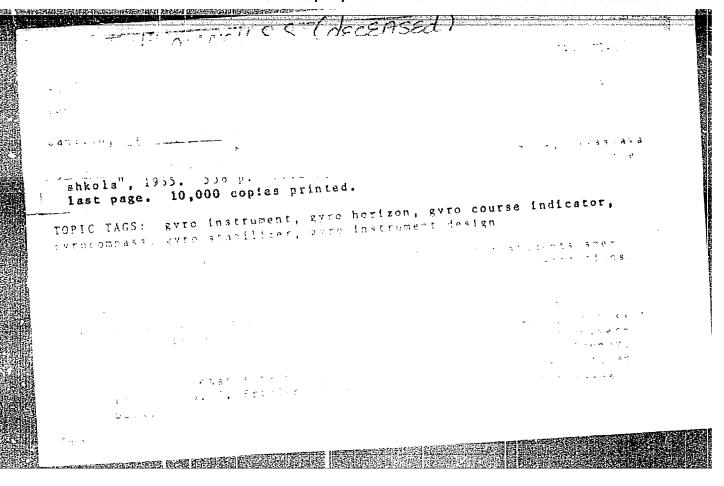
TEXT: The author describes the behavior of a gyroscope consisting of a sphere with a segment cut off and a cylindrical tube attached axially to its plane part. When it is subject to a sufficiently fast rotation about its axis and then its spherical part is placed on a horizontal plane, the end of the tube begins to descent till it touches the plane, after which the spherical part continues to rise, until the vertical position is reached. A theoretical explanation of this phenomenon is given and equations of motion desired tion of this phenomenon is given, and equations of motion derived.

Card 1/1

DANILIN, Vasiliy Petrovich; TIKHMENEV, S.S., zsal. deyatel' nauki i tekhniki, doktor tekhn. nauk, retsenzent [deceased]; i tekhniki, doktor tekhn. nauk, retsenzent [deceased]; i tekhniki, doktor tekhn. nauk, retsenzent [deceased]; i tekhniki, doktor tekhn. nauk, retsenzent; RIDIKNDER, G.O., prof., nauchn. red.; retsenzent; TITOVA, V.A., red.; DANILOVA, V.V., red.

[Cyroscopic instruments] Giroskopicheskie pribory. Moskva, (MIRA 18:6)

Vysshaia shkola, 1965. 538 p. (MIRA 18:6)



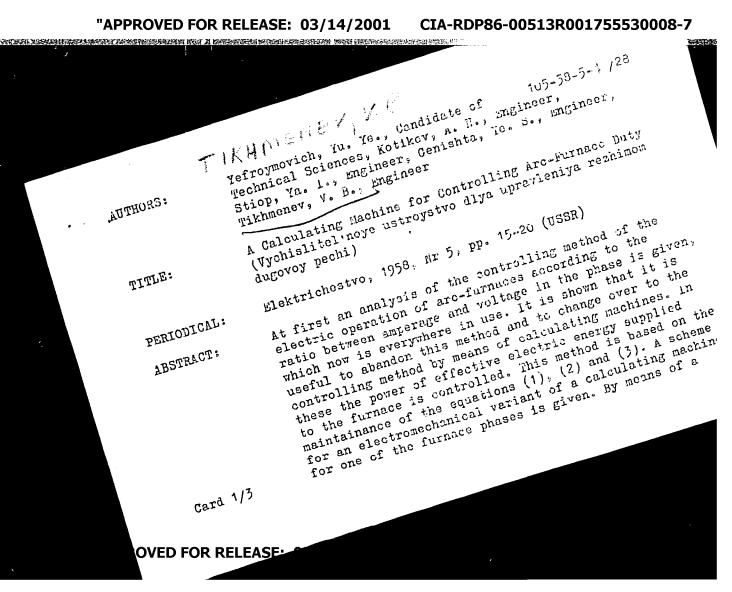
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Foreword -- 3

Introduction -- 8

Part One. Oyro dorizons
Ch. I. Gyro herizons of a gyro-pendulum type -- 54
Ch. II. Oyro herizon with proportional (radial) correction -- 70
Ch. III. Observation on a constant correction mission several
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i di deser AM5010216 Ch. IX. Gyro nagnatic compasses -- 287 Ch. X. Free gyroscopes -- 316 Part Three. Gyro transmitters of Angular Velocities and Accelerations. Special Gyro Instruments and Devices Ch. XI. Transmitters of angular velocities based on gyroscopes with two degrees of freedom -- 335 Ch. XII, Transmitters of angular velocities based on gyroscopes with three degrees of treeton. Contactional gyroscopes -- 360 Ch. XIII. Some special zyro instruments and devices. Floating gyros -- 385 Part Four. Power Cyro Stabilizers Ch. XLV. MonoExial power gyro stabilizer. Selection of stabilization-system parameters -- 421 Ch. XV. Biaxial and triaxial gyro stabilizers fower gyro horizons and course verticals -- 467 Part Five. Elements of Gyro Instruments Design Card 3/4

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A Calculating machine for Controlling Arco-Purnace Duty 105-58-5-4/28

diagram the controlling character in the absence and in the presence of the calculating devices is illustrated. The contradiction between the necessity of a quick removal of the produced deviation of power from the nominal value - and the necessity of a relatively slow compensation of the produced deficiency easily can be removed, when the employed electrodynamic controller is characterized by a maximum high-speed effect, whilst the velocity of the transients (determined by the effect of the calculating machine) is tuned in within the demanded limits at the expense of controlling the amplifier factor of the integrating member. The calculating device reacts to all excitations causing a deviation of the power from its given mean value. The practical experience with the calculating machine shows that during melting at T = 10 sec the variation of the real current caused by excitations does not exceed i 10 % of the arc-current mean value. The one-year lasting test operation of the calculating machine showed that during complicated melting processes the machine guarantees an energy supply with an error not exceeding 2 %. By the aid of the

Card 2/3

105-58-5-4/28 A Calculating Machine for Controlling Arc-Furnace Duty

calculating machine it was possible to diminish the asymmetry of electroenergy distribution between the

phases of a 20 t furnace by the 2,5-fold.

The following persons took part in creating the electron

calculating machine: A. A. Fel'dbaum, Doctor of

Technical Sciences, L. N. Fitsner, Candidate of Technical Sciences, Yu. M. Alyshev, Engineer, L. I. Shevchenko,

Engineer. There are 5 figures and 5 references, which

are Soviet.

Tsentral'naya laboratoriya avtomatiki tresta "Energochermet". ASSUCIATION:

(Central Laboratory for Automation of the "Energochermet"

Trust)

SUBMITTED:

May 27, 1957

AVAILABLE:

Library of Congress

1. Electric furnaces--Control systems 2. Mathematical computers--

Card 3/3

Applications

YEFROIMOVICH, Yu. Ye., kand. tekhn. nauk; KOTIKOV, A.H., insh.; STIOP,
Ya. I., inzh.; GRNISHTA, Ye. S., inzh.; TIKEMERN, V.E., insh.

Computing device for arc furnace control. Elektrichestvo no.
5:15-20 My '58.

1. TSentral naya laboratoriya avtomatiki tresta "Energochermet."
(Klectric furnaces)
(Calculating machines)

KULEBAEIN, V. S., Aced., ROSENFELID, V. Ye., Prof., LIVSKITS, I. I. TIKHMENEV. V. N.

Mine Haulage

Concerning B. S. Belovidov's article "Range of usefulness of condenserelectric locomotives." Gor. zhur. 126 no. 6 (1952)

9. Monthly List of Russian Accessions, Library of Congress, September 1952 1959, Uncl.

KULEBAKIN, V. S., Acad., ROSENFEL'D, V. YE., Prof., LIVSHITS, I. I., TIKHMENEV, V. N. Mine Haulage

Concerning B. S. Belovidov's article "Range of usefulness of condenser electric locomotives." Gor. zhur. 126 no. 6 (1952).

9. Monthly List of Russian Accessions, Library of Congress, September, 1957958 Unclassified.

	M. G. Tikhmenev Letter to the editor: concerning the amendment to the accepted M. G. Tikhmenev Letter to the editor: P. 1306. August 10, 1948	
	M. G. Tikhmenev Letter to the editor: concerning M. G. Tikhmenev	
	unit of measurement of the harden (USSR) 21, No. 12 (1948) SO: Journal of Applied Chemistry (USSR) 21, No. 12 (1948)	
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SHELYARHOVSKIY, M.V., dotsent (Novosibirsk 5, ul.Gogolya, d.65, kv.27);

TIMMENEVA, T.F.

Inmediate results of a resection of the public bone due to obendrous. Ortop., travm. i protes. 26 no.12:61.63 D *65.

(MIRA 19:1)

1. Submitted April 16, 1965.

TIKHMIHOVA, K.S., aspirant

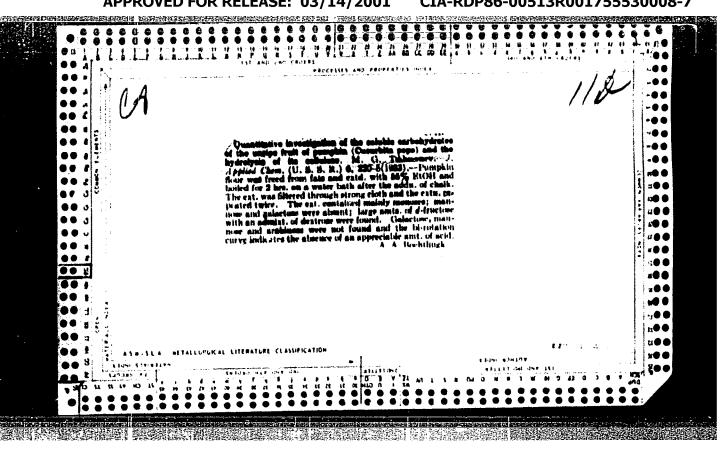
Effectiveness of treatment of children suffering from rheumatic fever at Kislovodsk. Vop.okh.mat. i det. 8 no.2: 64-68 F'63. (MIRA 16:7)

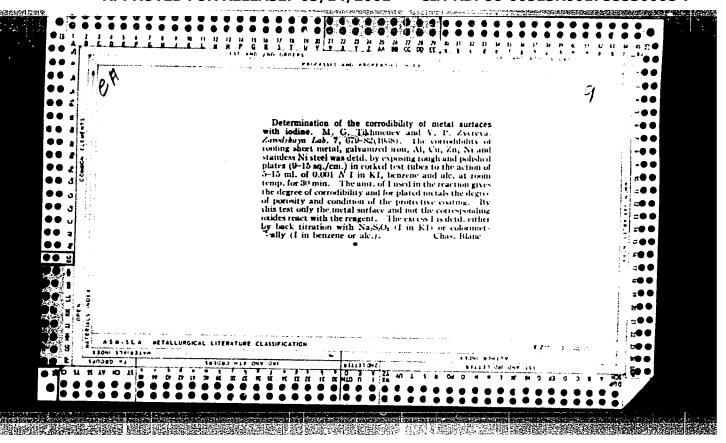
1. Iz kafedry detskikh bolezney (zav. - prof. G.I.Tets) lechebnogo i sanitarno-gigiyenicheskogo fakul'tetov Khar'kovskogo meditsinskogo instituta i Pyatigorskogo nauchno-issledovatel'-skogo bal'neologicheskogo instituta (dir. - kand.med. nauk Ye.A.Kamenskiy) na baze Detskogo klinicheskogo sanatoriya v Kislovodske (glavnyy vrach A.A.Simonova) Nauchnyy rukovo-ditel' - doktor med.nauk prof. G.I. Tets.

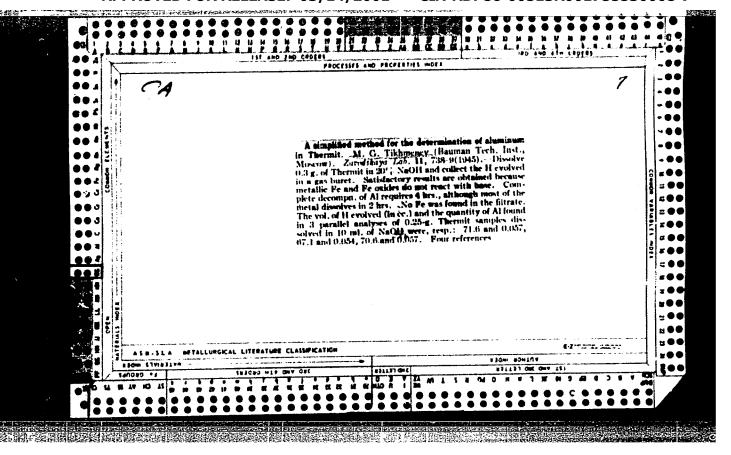
(KISLOVODSK-BATHS, MEDICATED)

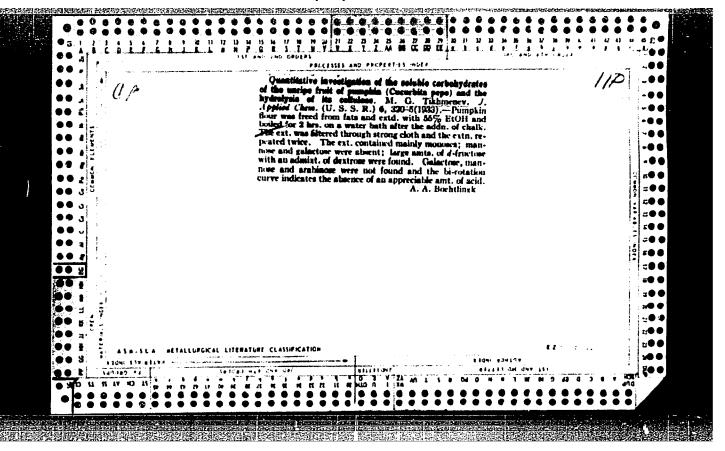
(RHEUMATIC HEART DISEASE)

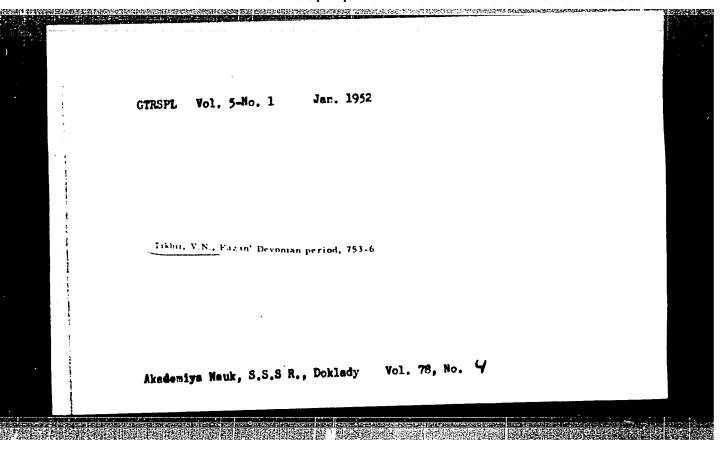
APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001755530008-7"

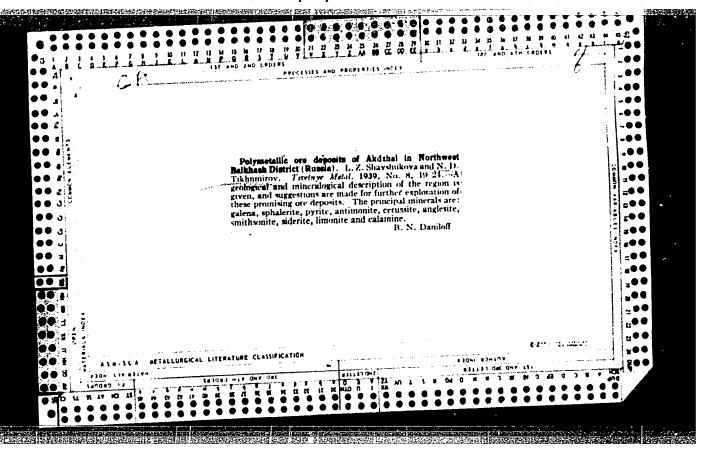












VOLKOV, M.A.; TIKHOBAYEV, G.A.; RASTORGUYEV, A.K., starshiy prepodavatel

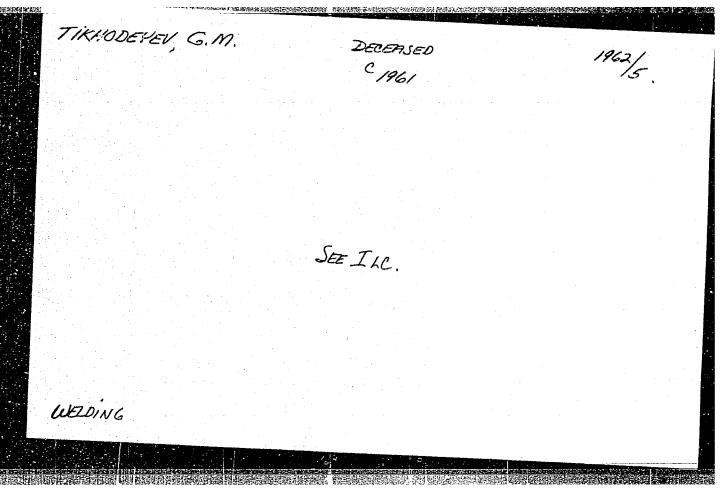
New transistorized automatic devices in textile finishing factories. Tekst. prom. 23 no.7:57-61 Jl '63. (MIRA 16:8)

1. Glavnyy inzh. fabriki imeni rabochego F. Zinov'yeva (for Volkov). 2. Master gruppy avtomatiki fabriki imeni rabochego F. Zinov'yeva (for Tikhobayev). 3. Kafedra elektrotekhniki Ivanovskogo tekstil'nogo instituta imeni M.V. Frunze (for Rastorguyev).

(Automatic machines) (Textile finishing)

Grinding journals of drying cylinders. Bum. prom. 36 no.2:
21 Ag '61.

1. Balakhninskiy kombinat.
(Grinding and polishing) (Papermaking machinery)



SHATELEN, M. A., ZALESSKIY, A. M., LEBEDEV, V. P., TELESHEY, B. A.,
ZHERBIN, S. M., ARKHANGEL'SKIY, F. K. BAUMGOL'TS, A. I.,
ZOLOTAREV, T. L., BUSHUYEV, M. N., PROSKURYAKOV, V., GURVICH, A. M.,
YES'MAN, A. I., SHVETS, F. T., KONDRAT'YEV, G. M., USOV, S. V.,
ALEKSEYEV, A. YE., BOLOTOV, V. V., TIKHODEYEV, I. M., GERASIMOV, N. V.,
MELENT'YEV, L. A., LEVIT, G. O., ORLOVSKIY, A. V., VEDIKHOV, V. M.,
STRIKOVICH, M. A., GREYNER, L. K., NIKIFOROV, V. V., SOLODOVNIKOV, G. S.,
SMIRNOV, S. P., ZOLOTAREVA, N. A., KALEKINA, N. M., GOL'DMERSHTEYN, T. L.,
KLYBANOV, L. D., SALUYEV, N. F., ZAIKO, A. A., MARTEKS, M. F.

A. S. Rumyantsev, Obituary. Elektrichestvo, No. 2, 1952.

So: Monthly List of Russian Accessions, Library of Congress, July 1952 Monthly List of Russian Accessions, Library of Congress, July 1952

TIKHODEYEV, N. N.

"Lightning, Its Origin and Characteristics".

Sbornik Dokladov Nauchn. Tekhn. Konderentsii Stud. Leningr. Politekhn. In-ta.

pp 3-19, 1953.

The hypothesis of Ya. I. Frenkel! (Izvestiya AN Ser. Geofiz., 8, 325, 1944) is used by the author to clarify electrification and polarization in a cloud, the mechanism for the formation of lightning, and the occurrence of excess negative charge of the earth. Analyzing the dependence of the behavior of field strength during clear weather upon variations in solar radiation, he arrives at the conclusion that the main role in the process of strom formation belongs to the sun. The sun is the main factor determining both the intensity of storm activity and also the field intensity of clear day. He presents data on storm activity and protection against storms. (RZhGeiol, No 11, 1955)

SO: Sum No 884, 9 Apr 1956

TIKHODEYEV, N. N.

Certain Laws Governing Thunderstorm Activity

Tr. Leningr. politekhn. in-ta, No 1, 1954, pp 162-167

The author briefly describes the mechanism governing the occurrence of a thunderstorm. The separation of charges occurs under the influence of rising currents, imparting to the drops of various sizes a charge and different velocities, as a result of which a critical potential difference is formed. The author considers it necessary to evaluate the intensity of thunderstorm activity by means of its effect on one square kilometer of the earth's surface in the course of one storm day. (KZhGeol, No 3, 1955)

SO: Sum. No. 639, 2 Sep 55

TIKHODEYEV, H. H.

TIKHODEYEV, M. M.- "Certain Problems in the Theory of Corona and its Calculation in High-voltage d-c Lines." Min of Higher Education USSR, Leningrad Polytechnic Instimeni M. 1. Kalinin, Leningrad, 1955 (Dissertations for Degree of Candidate of Technical Sciences)

SO: Knizhnaya Letopis' No. 26, June 1955, Moscow

GORDETEVA, Ye.K.; MARINETS, T.K.; TIKHODETEV, N.N.; TUSHINSKIY, L.I.

A unit for testing metals for lasting etrength and creep in ionised gaseous media. Zav.lab. 21 no.4:487-488 '55 (MLRA 8:6)

1. Leningradskiy politekhnicheskiy institut imeni M.I.Kalinima (Creep of metals)(Netals-Testing)(Testing-machines)

7/11/10/0/0/N FD-3204 USSR/Physics - Electricity, Power transmission

Pub. 153-13/28

Author

Card 1/1

: Tikhodeyev N. N.

Title

: Some applications of the methods of similarity and dimension to the

theory of corona discharge with a direct-current voltage

Periodical

: Zhur. Tekh. Fiz. 25, No 7, 1257-1264, 1955

Abstract

: On the basis of the dimensional method the author formulated similarity criteria and calculation formulas for different conditions of corona discharge. He established that it is feasible, contrary to widespread opinion, to model complex phenomena associated with corona under laboratory conditions, including problems encountered in the planning of high-voltage d.c. transmission lines. Graphs,

diagrams. Nine references: seven USSR.

Institution :

: April 7, 1954 Submitted

CIA-RDP86-00513R001755530008-7 "APPROVED FOR RELEASE: 03/14/2001

FD-3183

USSR/Physics - Unipolar Corona

Card 1/1

Pub. 153-13/21

Author

: Tikhodeyev, N. N.

Title

The differential equation of a unipolar corona and its integration in the

simplest cases

Periodical: Zhur. tekh. fiz., 25, No 8 (August), 1955, 1449-1457

Abstract : The author states that despite the large number of experimental works devoted to the investigation of corona discharge, the theory of this phenomenon has been developing very slowly, mostly because of the nonlinearity of the original differential equations. He presents the complete analytical solution of the problem in the three simplest cases. These are: unipolar current of the corona in the case of plane electrodes, in the case of concentric cylinders, and in the case of electrodes in the form of concentric

spheres. The author thanks O. V. Shcherbachev and A. V. Vorob'yev.

Submitted: March 22, 1954

Intibudeyeu, N. N.

USSR/Electronics - Gas Discharge and Gas Discharge Instruments H-7

Abs Jour : Referat Zhur - Fizika, No 5, 1957, 12371

Author : Vorol'ev, A.V., Tikhodeyev, N.N.

Inst

: Physical Simulation of the Characteristics of Corona. Title

Orig Pub : Zh. tekhn. fiziki, 1955, 25, No 11, 2008-2010

: Using the balance equations for the positive and negative Abstract

ions, and also taking into account the field of the space charge and the boundary conditions, the authors find general similarity criteria for the characteristics of corona' in dc and ac voltages (in the case of a two-conductor sys-

tem).

Bibliography, 5 titles.

Card 1/1

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001755530008-7"

TIKHOUSTEV. N.J., kandidat tekhnicheskikh nauk.

Remarks on S.F.Rakushev's article. Elektrichestvo no.9:88-89 S '56. (NIRA 9:11)

1. Leningradskiy politekhnicheskiy institut imeni Kalinina. (Electric lines)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001755530008-7"

VOROB'YEV, A.V.; TIKHODEYEV, N.N.

Effect of the geometric parameters of high-tension d.c. transmission lines on generalized corona characteristics. Zhur.tekh.fiz. 26 no.4: 759-766 Ap '56. (NIRA 9:8)

(Electric lines) (Corona (Electricity))

USSR/Electronics - Gas Discharge and Gas-Discharge Instruments, H-7

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 35168

Abstract: account the sag of the conductors (2b -- distance between conductors, r₀ -- radius of conductor, H -- height of suspension). Dividing the wires produces the same effect as for the case of unipolar corona in a split wire.

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001755530008-7"

LIKHODEVEY, NN

USSR/Electronics - Gas Discharge and Gas-Discharge Apparatus

H-7

Abs Jour : Rof Zhur - Fizike, No 3, 1957, No 7158

Author : Tikhodeyev, N.N.

: Concerning One Law Governing the Transition of Unipolar Titlo

Corona Discharge Into Spark Discharge

Orig Fub : Zh. tekhn. fiziki, 1956, 26, No 7, 1495-1496

Abstract: Pointing out the difficulties encountered in an attempt to formulate a theory for the transition of a corona discharge into a spark discharge, the author proposes to use the an-

alog method for the solution of technical problems.

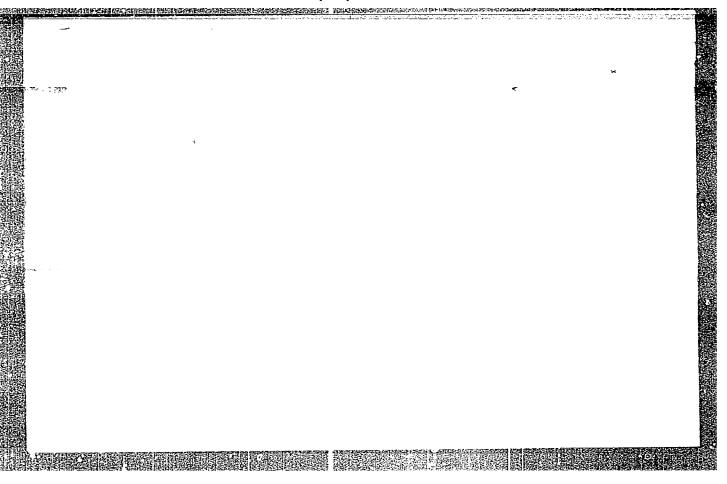
An experimental investigation, corried out for a system of corona electrodes (a system comprising a hyperboloid of revolution and a plane 4 or 8 cm apart) have confirmed conclusively that in geometrically-similar gaps the ratio of the spark voltage to the initial corona voltage does not depend on the linear scale of the electrodes, provided the generalized currents are equal. Bibliography, 6 titles.

Card : 1/1

> **APPROVED FOR RELEASE: 03/14/2001** CIA-RDP86-00513R001755530008-7"

Zurn.techn.fis, 26, fasc.11, 2518-2523 (1956) CARD 2 / 2 PA - 1687 The occurrence of corona on the wire rope: In the case of unipolar lines corona was formed, according to experiments carried out, already at $U/U_{op} = 1,3$ to 1,4. Here U denotes the voltage on the line, and U_{op} - the initial voltage of the corona on the line. Here the amperage of the corona between the lines and the wire rope increased rapidly and depended only little on the protective angle. The typical generalized corona characteristics are shown in a diagram. The reduction of the difference of height between the wire rope and the line rapidly reduces the voltage at which corona occurs on the wire rope. The change of the diameter of the wire rope exercises but little influence. A bipolar corona between the lines and the wire rope was not noticed at any protective angles even in the case of very thin wire ropes. A "premature" occurrence of a corona on the wire rope is rendered difficult in the case of a bipolar circuit by the fact that by the filling up of the space between the conductors with ions of both signs the additional charge on the wire rope due to the ions is widely compensated. In conclusion the use of an insulated wire rope in a parallel current line is discussed. When transmitting high power the unipolar method is able to compete successfully with the bipolar one.

INSTITUTE:



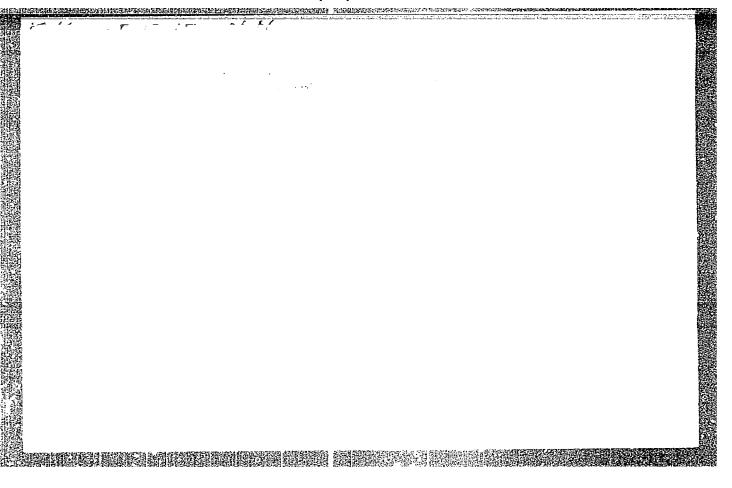
TIMHOMETEV, M.N., kandidat tekhnicheskikh nauk.

Similarity criteria relationships in the theory of coronas.

Elektrichestvo no.4:25-29 Ap '57. (MLRA 10:5)

1. Mauchno-issledovatel'skiy institut postoyannogo toka.

(Corona (Blectricity))



.HOR:

ALEKSANDROV,G.N., TIKHODEE/,N.N.

PA - 2142
Concerning a Wrong Hypothesis in the Theory of Corona Discharge
(Ob odnoy oshibochnoy gipoteze v teorii korony. Russian).
Zhurnal Tekhn. Fiz., 1957, Vol 27, Nr 2, pp 410 - 413 (U.S.S.R.)
Received: 3 / 1957

Reviewed: 4 / 1957.

ABSTRACT:

PERIODICAL:

The article by POPKOV, V.I. in Zhurnal Tekhn. Fiz., 25, 13 is criticized. According to the author's opinion, the statement made here concerning the so-called critical gradients of the corona potential is erreneous. It is shown in what manner PIK, F. obtained the hypothesis on corona discharge at different gradients and in what way a hypothesis was spred which is by no means confirmed. POPKOV followed in the foot steeps of PIK. His quantitative argumentations are not convincing. Also his assumption that all negative ions decay at the ionization boundary is not confirmed and very doubtful. Even if this assumption were accepted, his conclusion that, with the increase of U , if E⁺ = E a.b.

 E_k^+ decreases, cannot agreed with. (U denotes the initial voltage of the bipolar corona). (E_k^- denotes the critical voltage necessary to maintain the discharge in the case of the presence of the ion-counter-current). It is shown that a steep rise of current ought

Card 1/2

PA - 2142

Concerning a wrong Hypothesis in the Theory of Corona Discharge.

to have been observed which, however, neither the authors nor

POPKOV were able to detect. (No illustrations).

ASSOCIATION: Politechnic Institute M.I.Kalinin, Leningrad.

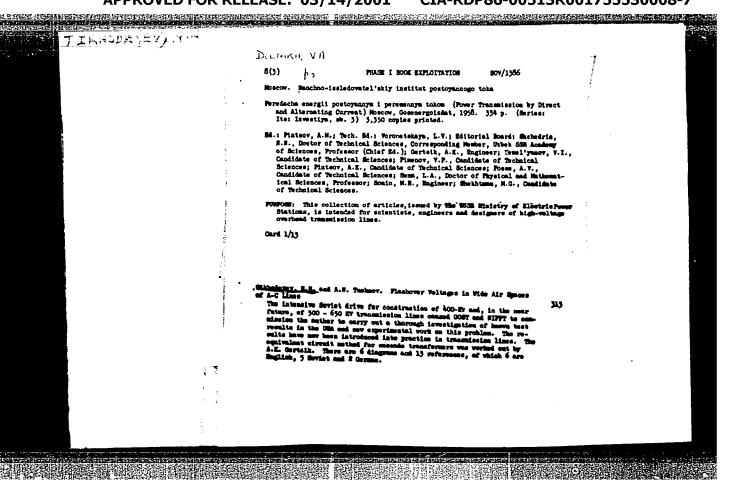
PRESENTED BY:

SUBMITTED: 27.1.1956

AVAILABLE:

Library of Congress.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001755530008-7"



CONTROL DE LA COMPANION DE LA

TIKHODETEN, A. M.; BELL SOMOE IENA, O. S.;

"Investigation of Corona Characteristics in Models of High-voltage D-Lines," p 314, with VOROB'YEVA, A. V.

"Some Basic Electrostatic Problems in High-voltage Technique," with GOREV, A. A., ALEKSANDROV, G. N., Levinshteyn, M. L., and PIRYAZEVA, A. I. p 578

High Voltage Technique, Moscow, Gosenergoizdat, 1958, 664pp (Series: Its Trudy, No. 195)

This collection of articles sums up the principal results of investigations end studies made by Prof. A. A. Gorev, Dr. Tech. Sci., and his staff in the field of high voltage phenomena and techniques at LPI (Leningrad Polytech Inst.) It was at this institute that Prof. Govev completed his higher scientific education and then taught and carried on his investigations in the field until his death in 1953. In 1956, by decree of Min of Higher Education, the High-Voltage Lab. at LPI was named after A. A Gorev.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001755530008-7"

105-58-3-9/31

AUTHORS:

Tikhodeyev, N. N., Candidate of Technical Sciences,

Tushnov, A. N. Engineer

TITLE:

Alternating Current Spark-Over Voltages of Air Gaps (Razryadnyye napryazheniya vozdushnykh promezhutkov pri

peremennom napryazhenii)

PERIODICAL:

Elektrichestvo, 1958, Nr 3, pp. 37 - 39 (USSR)

o jo zavode i jedi dil**j. 1**071

ABSTRACT:

Here, the first results on the investigations of the electrical strength of long air gaps are given. These were obtained in the Laboratory for High-Voltage-Engineering in the Institute for Direct Current. Here, methodical problems are investigated, and the curves of spark-over voltages for rod-rod gaps and rod-plane gaps are given. The spark-over voltages obtained during a period of smooth rise of alternating voltage with industrial frequency in the gap and of a voltage increase from zero up to Udischarge

pared with each other. The tests were carried out on an open test stand. A cascade consisting of three transformers with

Card 1/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001755530008-7"

105-58-3-9/31

Alternating Current Spark-Over Voltages of Air Gaps

750 kV each, was used as a potential source. The length of each rod in its maximum extended state amounted to 20 m. Based on the tests it was determined that the values of the spark-over voltages of the rod-rod gaps and those of the rod-plane gaps are different to a greater extent than it was hitherto known. It was also determined that this difference becomes greater with an increase of the discharge-gap length. The causes for this fact are uncertain and demand a thorough investigation. The comparison of the results obtained in the Institute for Direct Current with those of earlier investigations showed a good agreement in the voltage range of up to 800 - 900 kV. At higher voltages the data of the American work (Ref. 2) agree with those of the Institute for Direct Current. The authors were advised by A. K. Gertsik and A. M. Zalesskiy. A. A. Filippov assisted in the work. There are 4 figures, 1 table, and 12 references, 4 of which are Soviet.

ASSOCIATION: Nauchno-issledovatel'skiy institut postoyannogo toka (Scientific Research Institute for Direct Current)

SUBMITTED: Card 2/2

April 22, 1957

57-2-29/32

AUTHOR:

Tikhodeyev, N. N.

TITLE:

On the Theory of the Barrier-Layer Effect in a System of Electrodes With an Incomplete Barrier Layer (K teorii bar' yernogo effekta v sisteme elektrodev s nepolnym bar'yerom)

PERIODICAL:

Zhurnal Tekhnicheskoy Fiziki, 1950, Vol. 28, Nr 2, pp.412-423 (USSR)

ABSTRACT:

One of the simplest cases of the effect is investigated here: air, constant voltage, unsymmetrical interspace (from the point of view of the field) with an incomplete harrier layer. (I. e. a barrier layer which does not completely cover the electrode forming the corona). The fundamental attention was paid to the following 3 problems: 1.) Determination of the qualitative aspect of the phenomenon, 2.) mathematical formulation of the problem and 3.) foundation of the possibility of a physical model of a barrier-layer effect. In this connection special attention was paid to the construction of the test apparatus. For this purpose a special (frameless) system for the fastening of the barrier layer was used, the dimen-

Card 1/4

57-2-29/32

On the Theory of the Barrier-Layer Effect in a System of Electrodes With an Incomplete Barrier Layer

sions of the plane and the "needles" were enlarged in a way so that the distance from the investigated interspace to the foreign objects amounted to at least the tenfold amount of the interspace. As corona-forming electrode was used a "needle" in the form of a regular hyperboloid of revolution. The hyperboloids were carefully cut (according to special patterns), chromium-plated and before the test degreased with alcohol. The barrier layer in the shape of a long strip was set up vertically. - It is shown that the barrier effect owes its formation to the corona-discharge in the interspace. The rules governing the discharge am, hower, principally different in interspaces with complete and incomplete barriers. The performed tests show that the entire process of discharge in an interspace with incomplete barrie relayer at a gradual increase in voltage may be subdivided into three qualitatively different stages: 1.) The stage of a nonsteady additional charge of the barrier layer, 2.) the stage of a steady flow round the barrier by a flow of ions and 3.) the stage of sparks. The tests showed that the flow round the barrier layer by the flow of ions begins the later the closer the barrier is to the

Card 2/4

57-2-29/32

On the Theory of the Barrier-Layer Effect in a System of Electrodes With an Incomplete Barrier Layer

needle and the wider the barrier is. With a decrease in the width of the barrier the s'/s ratio, which yields the maximum rupturing voltage, is displaced in the direction of the lewer values. The most advantageous of a is 0,15 + 0,2. As barrier the author used: cable insulating paper (ordinary and oiled), rubber, veniplast, enameled tissue, nettles, grid tissue. It was found that only in the last two cases the rupturing voltage was by 10 + 20 % lower. In all other cases the rupturing voltage, the voltage of flowing round and the characteristic I = f(V) were immegendent of the barrier-material. U denotes the voltage. The posing of the problem of the calculation of the field in the interspace with a barrier in the stage of flowing round (second stage) is treated and the sets of equations for the field as well as the conditions of similitude are formulated. The solution of the set of equations (12) is due to the mathematical complications (nonlinearity of the initial equation) connected with great difficulties. These may considerably be diminished on transition to an infinitely thin flat barrier. For finding the condi-

Card 3/4

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001755530008-7"

57--2-29/32

On the Theory of the Barrier-Layer Effect in a System of Electrodes With an Incomplete Barrier Layer

tions of similitude the set of equations (12) is brought to the invariant form. The performed tests completely confirm the correctness of the theoretical conclusions. Yu. A. Romanenko performed the tests. The work was discussed with A. V. Vorob'yev. There are 8 figures, 1 table, and 9 references, 8 of which are Slavic.

SUBMITTED:

April 24, 1957

AVAILABLE:

Library of Congress

 Barrier layer-Determination 2. Barrier layer-Mathematical analysis 3. Barrier layer-Theory

Card 4/4

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001755530008-7"

57-28-4-33/39

AUTHORS:

Yegorova, L. V. , Tikhodeyev, N. N.

TITLE:

A Generalization of the Experimental Data on Corona Losses Obtained in 380-400 kV Lines (Obobshcheniye opytnykh dannykh o poteryakh na koronu, poluchennykh na liniyakh 380-400 kV)

PERIODICAL:

Zhurnal Tekhnicheskoy Fiziki, 1958, Vol. 28, Nr 4, pp.886-895

(USSR).

ABSTRACT:

The results of a generalization in the coordinates of the criteria of the a.c.-corona characteristics, measured in 380-400 kV test lines showed the following. 1) The geometrical criteria and the criterion of homochronism (gomokhronnost') do not exert any marked influence upon the generalized characteristics of the corona losses.

2.) The fundamental criterion of the generalization is the U/U criterion. U - voltage, U - initial corona-voltage (for the same phase). 3) The generalized corona-loss-characteristics measured in different countries in single and double lines are in the main in good agreement with each other as well during good weather as during rain of dif-

Card 1/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001755530008-7"

57-28-4-33/39 A Generalization of the Experimental Data on Corona Losses Obtained in 380-400 kV Lines

> ferent intensity, during dry and wet snow, and during hoar-frost, in case that the initial voltage of the common corona is assumed as U . 4) Due to the invariance of the generalized corona-characteristics the latter cannot be used for the calculation of the annual average of corona-losses in domains of lines where direct measurements are missing. There are 5 figures, 2 tables, and 16 references, 9 of which are Soviet.

ASSOCIATION:

Nauchno-issledovatel'skiy institut postoyannogo toka,

Leningrad

(Leningrad, Scientific Research Institute for Direct Current)

SUBMITTED:

March 25, 1957

Card 2/2

CIA-RDP86-00513R001755530008-7" APPROVED FOR RELEASE: 03/14/2001

VOSKRESENSKIY, N.A., inzh.; YEGOROVA, L.V., inzh.; TIKHODEYEV, N.N., kand.tekhn.nauk; FILIPPOV, A.A., inzh.

Method for calculating average annual corona losses. Elek.sta.
29 no.1:53-56 Ja '58. (MIRA 11:2)

(Corona (Electricity))

YEGOROVA, L.V., inzh.; TIKHODETNV, N.N., kand. tekhn. nauk.

Average annual corona loss on 400 kv and 600-650 kv transmission
lines. Elek. sta. 29 no.2:71-74 F 158.

(Gorona (Electricity))

VOROB'TEV, A.V.: TIKHODMYEV, N.N.

Studying corons characteristics on a model of a d.c. high-voltage line. Trudy LPI no.195;314-322 '58. (MIRA 11:10) (Corona (Electricity)) (Electric power distribution-Direct current)

GOREW, A.A. [deceased]; ALEKSAHDROV, C.H.; LEWINSHTENE, M.L.; PIRYLERV,
A.I.; TIKEDENEV, N.K.

Some basic cinetwastatic problems of high-voltage engineering.
Trudy LPI no.195:578-619 158. (Mith 11:10)
(Electric engineering--Problems, exercises, etc.)

8(3)

£0V/105-59-2-2/25

AUTHORS:

Tikhodeyev. H. He: Candidate of Technical Sciences,

Tushnov, A. N., Engineer

TITLE:

Discharge Voltage Across Large Air Gaps Approximating Overhead Line and Substation Insulation Clearances in Shape (Razryadnyye napryazheniya dlinnykh vozdushnykh promezhutkov, priblizhayushchikhaya k promezhutkam vozdushnykh liniy i podstantsiy)

PERIODICAL: Elektrichestvo, 1959, Nr 2, pp 6-10 (USSR)

ABSTRACT:

In the authors' article (Ref 1) a difference in the values of discharge voltages between rod-rod gaps and rod-plane gaps was stated. In connection with this, investigations were carried out in 1957, in the Nauchno-issledovatel'skiy institut postoyannogo toka (Scientific D.C. Research Institute) on air gaps that are the most remarkable for their geometrical shape at designing transmission lines and open air substations. Out of the large number of possible clearances the following were investigated: line - support, line - rod, line - line, ring - ring, vertical ring - plane, sphere - plane, horizontal ring - plane. The discharge voltages were reached

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by gradually increasing the voltage applied on the gap. The test plant was described in detail in the article (Ref 1). The

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Discharge Voltage Across Large Air Gaps Approximating Overhead Line and Substation Insulation Clearances in Shape

energy was supplied by three 750 kv transformers. Two connections were used: 1) All 3 transformers were joined in cascade; 2) upper transformers were cascaded whilst the lower transformer was connected in such a way that its voltage was in phase opposition to the voltage of the two upper transformers. The method of measuring the voltage at the first connection was described in detail by the article (Ref 1). At the second connection, the calibration of the capacitive divider connected to the terminals of the medium transformer was carried out by two independent methods. The test results were the same for both cases. The calibration curve was a straight line as at the first connection. - The test results of the above named air gaps are given. Summarizingly the following statements are made: at present, there is neither a possibility of explaining the physical reasons for the consistency of the discharge voltages at electrodes of different shapes nor to detect the reasons for the large difference in discharge voltages of the clearances between line - support, ring - ring

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Discharge Voltage Across Large Air Gaps Approximating Overhead Line and Substation Insulation Clearances in Shape

ring - plane. It only can be noted that the discharge voltages in air gaps of electrodes of unlike shape (sphere - plane, ring - plane) are of similar value to those in the rod-plane gap whilst the gaps with electrodes of the same shape (ring - ring, line - line) show discharge voltages of nearly the same value as those in the gaps. By comparing the discharge voltages of differently shaped gaps it is seen that for estimating the minimum admissible clearances at lines and substations, three main curves of discharge voltages can be used, only: figure 6, curves 1, 2, and 3. There are 6 figures, 1 table, and 3 references, 2 of which are Soviet.

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Selecting minimum permissible air gaps with regard to internal overvoltages for lines, substations, and apparatus with voltages from 220 to 700 kv. Isv. MIFF no.4:125-152 '59. (MIRA 13:2)

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APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001755530008-7"

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report to be submitted for Intl. Conference on Large Electric Systems (CIGRE), 18th Biennial Session, Paris, France, 15-25 Jun 60.

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YEMEL'YANOV, N.F., kand.tekhn.nauk; TIKHODEYEV, N.N., kand.
tekhn.nauk

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TIKHODEYEV, N.N. Choice of leads with consideration of corona at open 110 to 750 kv. electric substations. Izv. NIIPT no.7:203-214 '61. (MIRA 14:9)

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A transfer of the second Section of the sectio Tyre one low to this grow Totak - Basis getaring bips for oproblems on the first Architecture being SOURCE: Dalinive elektroperedach! 500 kv (Long-distance transmission of 500 kv. Elegan Joseph C. Stort and Burgon March and Control for the control TOPIC TAGS: corona, corona loss, high voltage transmission, electric power transmission, power line, alternating jurgent transmission, weather offect, conductor And the state of ABSTRACT: Using a previously derived (17), MITET No. 8, 461) expression for commonal power loss on a three-phase high voitage into the author examines the varistion of the average yearly corona power loss with sign-ficant line parameters. Assyming variation of only one parameter at a time, analytical expressions are Provided the the Lead of all also also forms I will corona discharge is investigated for ASU-type conductors by evaluating the ratio of the average yearly corona loss P to the conductor loss P (aluminum). The congrand the figure that the light of the second the light